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L3: Entry 13 of 19

File: JPAB

Jan 18, 2002

PUB-NO: JP02002014478A

DOCUMENT-IDENTIFIER: JP 2002014478 A

TITLE: METHOD FOR REFINING MATERIAL OF ELECTRONIC PRODUCT

PUBN-DATE: January 18, 2002

INVENTOR-INFORMATION:

NAME

COUNTRY

ABE, KATSUMI

NISHIMURA, TOMONORI

WATANABE, TAKANOBU

SUZUKA, SUSUMU

ASSIGNEE-INFORMATION:

NAME

COUNTRY

HODOGAYA CHEM CO LTD

APPL-NO: JP2000199334

APPL-DATE: June 30, 2000

INT-CL (IPC): G03 G 5/00; B01 D 15/00; B01 J 20/12; G03 G 5/06; C09 K 11/06

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a method for refining a material of electronic products by which an electric charge transferring material for electrophotography can be mass-produced, electrical characteristics such as good sensitivity and residual potential are ensured and a material not containing impurities which deteriorate electrical characteristics and having satisfactory electrical characteristics is obtained so as to obtain an electrophotographic photoreceptor less liable to a change of characteristics in fatigue.

SOLUTION: In the method for refining a material of an electronic item, the material or its intermediate is dissolved in an organic solvent and the resulting solution is brought into contact with activated clay at 65-200

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L3: Entry 18 of 19

File: DWPI

Mar 3, 1995

DERWENT-ACC-NO: 1995-134037

DERWENT-WEEK: 200206

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TITLE: Refining of charge transport material for electrophotographic photoreceptor -
by dissolving in organic solvent and contacting with activated clay.

PATENT-ASSIGNEE:

ASSIGNEE

MITSUBISHI KASEI CORP

CODE

MITU.

PRIORITY-DATA: 1993JP-0198502 (August 10, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 07056365 A	March 3, 1995		005	G03G005/06
JP 3243898 B2	January 7, 2002		005	G03G005/06

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 07056365A	August 10, 1993	1993JP-0198502	
JP 3243898B2	August 10, 1993	1993JP-0198502	
JP 3243898B2		JP 7056365	Previous Publ.

INT-CL (IPC): C07 B 63/04; G03 G 5/00; G03 G 5/06

ABSTRACTED-PUB-NO: JP 07056365A

BASIC-ABSTRACT:

Refining comprises dissolving charge transport material or its raw material in organic solvent and contacting the prep'd. soln. with activated clay.

ADVANTAGE - Compared with conventional method e.g. suspension washing with various solvents, sublimation or sepn. using a column, the refining has high purificn. yield and gives high purity material satisfying electric characteristics required for electrophotography.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: REFINE CHARGE TRANSPORT MATERIAL ELECTROPHOTOGRAPHIC PHOTORECEIVER
DISSOLVE ORGANIC SOLVENT CONTACT ACTIVATE CLAY

DERWENT-CLASS: G08 P84 S06

CPI-CODES: G06-E; G06-F06; G06-F07;

EPI-CODES: S06-A01X;

SECONDARY-ACC-NO:

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L3: Entry 18 of 19

File: DWPI

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 07056365 A	March 3, 1995		005	G03G005/06
JP 3243898 B2	January 7, 2002		005	G03G005/06

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L3: Entry 17 of 19

File: DWPI

Mar 23, 1999

DERWENT-ACC-NO: 1999-350040

DERWENT-WEEK: 200025

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TITLE: Purification method of coal tar mixture used as electric charge transportation material for photoreceptor - involves filtering water and isopropyl alcohol added mixtures of electric charge transportation material using membranous filter to have predefined value

PATENT-ASSIGNEE:

ASSIGNEE

MITSUBISHI CHEM CORP

CODE

MITU

PRIORITY-DATA: 1997JP-0243603 (September 9, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11076763 A	March 23, 1999		005	B01D061/14

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 11076763A	September 9, 1997	1997JP-0243603	

INT-CL (IPC): B01 D 61/14; G03 G 5/05; G03 G 5/06

ABSTRACTED-PUB-NO: JP 11076763A

BASIC-ABSTRACT:

NOVELTY - Coal tar mixture is dissolved in organic solvent and added with activated clay. Then, isopropyl alcohol or water is added to the mixture. The water and isopropyl alcohol added mixtures after purification by membranous filter, satisfying JISK3832 have 90 or more KPa and 240 or more KPa respectively.

USE - To purify electric charge transportation material used for photoreceptor.

ADVANTAGE - Improves characteristics of coal tar mixture by effective purification, hence raises image formation characteristics.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PURIFICATION METHOD COAL TAR MIXTURE ELECTRIC CHARGE TRANSPORT MATERIAL
PHOTORECEIVER FILTER WATER ISOPROPYL ALCOHOL ADD MIXTURE ELECTRIC CHARGE TRANSPORT
MATERIAL MEMBRANE FILTER PREDEFINED VALUE

DERWENT-CLASS: G08 P84

CPI-CODES: G06-F06;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0271U

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L3: Entry 17 of 19

File: DWPI

Mar 23, 1999

DERWENT-ACC-NO: 1999-350040

DERWENT-WEEK: 200025

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11076763 A	March 23, 1999		005	B01D061/14

INT-CL (IPC): B01 D 61/14; G03 G 5/05; G03 G 5/06

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USE - To purify electric charge transportation material used for photoreceptor.

ADVANTAGE - Improves characteristics of coal tar mixture by effective purification, hence raises image formation characteristics.

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L3: Entry 16 of 19

File: DWPI

Mar 26, 1999

DERWENT-ACC-NO: 1999-271031
DERWENT-WEEK: 199923
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TITLE: Purification of charge-transporting material for electrophotographic photoreceptor - by dissolving the charge-transporting material in an organic solvent; and (2) contacting the solution with the activated clay

PATENT-ASSIGNEE:

ASSIGNEE

MITSUBISHI CHEM CORP

CODE

MITU

PRIORITY-DATA: 1997JP-0243604 (September 9, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11084694 A	March 26, 1999		004	G03G005/06

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 11084694A	September 9, 1997	1997JP-0243604	

INT-CL (IPC): C07 B 63/04; G03 G 5/06

ABSTRACTED-PUB-NO: JP 11084694A
BASIC-ABSTRACT:

Method for purification of charge-transporting material for electrophotographic photoreceptor comprises: (1) dissolving the charge-transporting material in an organic solvent; and (2) contacting the solution with the activated clay having the moisture content of at most 1 wt.%. *heating temp?*

Also claimed is the method for purification where, in the stage (2), the soln. of the charge-transporting material is contacted with an activated carbon and an activated clay having the moisture content of at most 1 wt.%.

USE - The method is applied to the manufacturing electrophotographic photoreceptors in general.

ADVANTAGE - By controlling the moisture content of the clay, the purity of the charge-transporting material is increased, thus, the electrostatographic characteristics of the material is improved.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TE RMS: PURIFICATION CHARGE TRANSPORT MATERIAL ELECTROPHOTOGRAPHIC PHOTORECEIVER
DISSOLVE CHARGE TRANSPORT MATERIAL ORGANIC SOLVENT CONTACT SOLUTION ACTIVATE CLAY

DERWENT-CLASS: E13 G08 P84

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L3: Entry 16 of 19

File: DWPI

Mar 26, 1999

DERWENT-ACC-NO: 1999-271031

DERWENT-WEEK: 199923

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TITLE: Purification of charge-transporting material for electrophotographic photoreceptor - by dissolving the charge-transporting material in an organic solvent; and (2) contacting the solution with the activated clay

PRIORITY-DATA: 1997JP-0243604 (September 9, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11084694 A	March 26, 1999		004	G03G005/06

INT-CL (IPC): C07 B 63/04; G03 G 5/06

ABSTRACTED-PUB-NO: JP 11084694A

BASIC-ABSTRACT:

Method for purification of charge-transporting material for electrophotographic photoreceptor comprises: (1) dissolving the charge-transporting material in an organic solvent; and (2) contacting the solution with the activated clay having the moisture content of at most 1 wt.%.

Also claimed is the method for purification where, in the stage (2), the soln. of the charge-transporting material is contacted with an activated carbon and an activated clay having the moisture content of at most 1 wt.%.

USE - The method is applied to the manufacturing electrophotographic photoreceptors in general.

ADVANTAGE - By controlling the moisture content of the clay, the purity of the charge-transporting material is increased, thus, the electrostatographic characteristics of the material is improved.

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L3: Entry 14 of 19

File: DWPI

Mar 13, 2003

DERWENT-ACC-NO: 2002-375525

DERWENT-WEEK: 200321

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TITLE: Purification of electronic product material or its intermediate, e.g. electrophotographic sensitive material, involves dissolving material in organic solvent and contacting with activated clay at preset temperature

INVENTOR: ABE, K; NISHIMURA, T ; SUZUKA, S ; WATANABE, T

PATENT-ASSIGNEE:

ASSIGNEE

HODOGAYA CHEM IND CO LTD

HODOGAYA CHEM CO LTD

CODE

HODO

HODO

PRIORITY-DATA: 2000JP-0199334 (June 30, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030050489 A1	March 13, 2003		000	C07C243/00
JP 2002014478 A	January 18, 2002		015	G03G005/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20030050489A1	June 29, 2001	2001US-0893684	
JP2002014478A	June 30, 2000	2000JP-0199334	

INT-CL (IPC): B01 D 15/00; B01 J 20/12; B32 B 9/00; C07 C 243/00; C09 K 11/06; G03 G 5/00; G03 G 5/06; G03 G 5/47

ABSTRACTED-PUB-NO: JP2002014478A

BASIC-ABSTRACT:

NOVELTY - An electronic product material is purified by dissolving the material or its intermediate in an organic solvent. The above solution is made to contact with an activated clay at 65-200 deg. C.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for purified electronic product material or its intermediate.

USE - For purifying an electronic product material or its intermediate such as electrophotographic sensitive body material, organic electron luminescent element material, and charge transport material (claimed) for photoreceptors for electrophotographic used in e.g. copying devices, electrophotographic systems, printers or facsimiles.

ADVANTAGE - The method enables to remove impurities which forms poor electrical property, effectively heating charge transport material at 65-200 deg. C and treating by activated clay. A charge transport agent with few residual potential is provided

WEST Search History

DATE: Thursday, August 07, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
	<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>		
L3	((activat\$ clay or galleon\$) with solvent) and (electronic or conductive or conductivity or electroconduct\$ or charge transport or photoconduct\$))	19	L3
L2	((activat\$ clay or galleon\$) with solvent) and (electronic or conductive or conductivity or electroconduct\$ or charge transport or photoconduct\$)	19	L2
L1	(activat\$ clay or galleon\$) and solvent and (electronic or conductive or conductivity or electroconduct\$ or charge transport or photoconduct\$)	356	L1

END OF SEARCH HISTORY